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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

09/445,523

Filing Date:

12/07/1999

Applicant:

Tyuyoshi MAEDA et al.

Group Art Unit:

2871

07/19/2004 HTECKLU1 00000008 09445523

180.00 OP

Examiner:

Dung T. Nguyen

01 FC:1806

Title:

LIQUID CRYSTAL DEVICE AND ELECTRONIC

APPARATUS

Attorney Docket:

9319S-000114

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

11. <u>COPIES</u>

A.X Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cross-referenced pending U.S. application listed below in Section IV, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. ____ Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

U.S. Filing Date

	C Because the present application was/is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.
	D This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form-1449 for consideration by the Examiner and for listing on any patent resulting from this application. If the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))
II.	CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)
	A Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).
	B. \underline{X} A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):
	 1.X See the attached foreign patent office communication from a counterpart foreign application. Japan 2.X English translations are provided. As Indicated in form HDP-1449 3. Other:
	CThe following additional information is provided for the Examiner's consideration.
٧.	CROSS REFERENCE TO RELATED APPLICATION(S)
	AThe Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.
	Serial No. <u>Filing Date</u> <u>Art Unit</u>
′ .	THIS IDS IS BEING FILED UNDER
	A37 C.F.R. § 1.97(b): (check only one box)

. •	than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.
	2 within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.
	3 before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).
	4 before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.
B	37 C.F.R. § 1.97(c): (check only one box)
	before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.
•	1No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
	2See the certification below. No fee is required.
C. <u>X</u> _	37 C.F.R. § 1.97(d):
	after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.
	1. X See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
CER1	TIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)
The u	indersigned hereby certifies that:
A . X	each item of information contained in this IDS was first cited in a
not m	nunication from a foreign patent office in a counterpart foreign application nore than three months prior to the filing of this IDS (See 37 C.F.R. § e)(1)). See further statement under 37 C.F. R. 1.704(d) below in section VII, licable; or

VI.

- B. ____ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).
- C. ____Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. STATEMENT UNDER 37 CFR 1.704(d)

The undersigned hereby states that:

X each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

VIII. PAYMENT OF FEES (check only one box)

- A. \underline{X} A check in the amount of \$180.00 is enclosed for the above-identified fee.
- B. ____Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

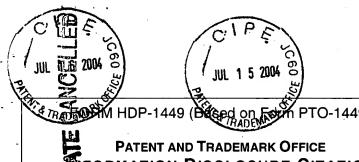
Respectfully submitted,

Dated: July 15, 2004

G. Gregory Schivley, Reg. No. 27,382 Bryant E. Wade, Ref. No. 40,344

HARNESS, DICKEY & PIERCE, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 (248) 641-1600

GGS/BEW/JJK



ORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 1

ATTORNEY DOCKET No.	SERIAL NO.		
9319S-000114 09/445,523			
APPLICANT			
Tsuyoshi MAEDA et al.			
FILING DATE	GROUP		
December 7, 1999	2871		

FOREIGN PATENT DOCUMENTS								
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translatio Yes	n No	
1.		06-337432	12/06/1994	Japan		Х		

OTHE	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)						
Ref. Desig.	Examiner's Initials						
1.		Communication from Japan re: counterpart application					

^{*} One or more of the English translation documents submitted herewith may be Abstracts only or partial machine created translations from the Japanese Patent Office. As such, the submitter does not necessarily vouch for their accuracy. Additional information may be obtained from the Japanese Patent Office web site at www.jpo.go.jp.

Examiner:

Date Considered:

DATE CANCALLED
JUL 1 6 2004 8

TRADAM

07-16-04

2871

5 93

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

_		
	Application Number	09/445,523
	Filing Date	December 7, 1999
	First Named Inventor	Tyuyoshi MAEDA et al.
	Art Ünit	2871
	Examiner Name	Dung T. Nguyen
	Attorney Docket Number	9319S-000114

ENCLOSURES (check all that apply)							
☑ Fee Transmittal Form	Drawing(s)		After Allowance Communication to Technology Center (TC)				
Fee Attached	Licensing-related Papers		Appeal Communication to Board of Appeals and Interferences				
Amendment / Reply	Petition		Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)				
After Final	-	Convert to a Application	Proprietary Information				
Affidavits/declaration(s)		ttorney, Revocation Correspondence Address	Status Letter				
Extension of Time Request	Terminal D	isclaimer	Other Enclosure(s) (please identify below):				
Express Abandonment Request	Request for Refund CD, Number of CD(s)		Form HDP 1449; Copies of cite references (2); and Acknowledgment postcard.				
Information Disclosure Statement							
Certified Copy of Priority Document(s)	Remarks						
Response to Missing Parts/ Incomplete Application							
Response to Missing Parts under 37 CFR 1.52 or 1.53							
SIGNA	TURE OF APP	PLICANT, ATTORNEY, OI	RAGENT				
Firm or Individual name Harness, Dickey 8	Pierce, P.L.C.	Attorney Name G. Gregory Schivley Bryant E. Wade	Reg. No. 27,382 40,344				
Signature	Mel	k.					
Date July 15, 2004							
CERTIFICATE OF TRANSMISSION/MAILING							

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	G. Gregory Schivley + Bryant F. Watte	Express Mail Label No.	EV 533 146 523 US (7/15/2004)
Signature	Seal late	Date	July 15, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/17 (10-03)
Approved for use through 07/31/2006. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required	respond to a collection of i	nformation unless it displays a valid OMB control number.
Contraction of the Contraction o	F	Complete if Known
FEE TRANSMITTAL for FY 2004	nappleation Number	09/445,523
for FY 2004 \(\sigma^1 \) JUL 15	Filing Date	December 7, 1999
Effective 10/01/2003. Patent fees are subject to annual revelop.	First pamed Inventor	Tsuyoshi MAEDA
Effective 10/01/2003. Patent fees are subject to annual receipty.	A aminer Name	Dung T. Nguyen
Applicant claims small entity status. See 37 CFR 1.27	Art Unit	2871
TOTAL AMOUNT OF PAYMENT (\$) 180	Attorney Docket No.	9319S-000114

METHOD OF PAYMENT (check all that apply)			***	,	FEE C	ALCULATION (continued)	
☑ Check ☐ Credit card ☐ Money ☐ Other ☐ None			DITIO	NAL FE	ES		
Order Deposit Account:			Entity	Small I	Entity		
Deposit		Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
Account	08-0750	1051	130	2051	65	Surcharge - late filing fee or oath	
Number		1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
Deposit		1053	130	1053	130	Non-English specification	
Account Name	Harness, Dickey & Pierce, P.L.C.	1812	2,520	1812	2,520	For filing a request for reexamination	
The Director is au	uthorized to: (check all that apply)	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
☑ Charge any add	ndicated below	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
	fied deposit account.	1251	110	2251	55	Extension for reply within first month	
	FEE CALCULATION	1252	420	2252	210	Extension for reply within second month.	
1. BASIC FI	LING FEE	1253	950	2253	475	Extension for reply within third month	
	<u>Small Entity</u> ee Fee Fee Description	1254	1,480	. 2254	740	Extension for reply within fourth month	
	ode (\$) Fee Paid	1255	2,010	2255	1,005	Extension for reply within fifth month	
1001 770 20	001 385 Utility filing fee	1401	330	2401	165	Notice of Appeal	
1002 340 2	002 170 Design filing fee	1402	330	2402	165	Filing a brief in support of an appeal	
1003 530 20	003 265 Plant filing fee	1403	290	2403	145	Request for oral hearing	
	004 385 Reissue filing fee 005 80 Provisional filling fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
100	Total distribution of the second of the seco	1452	110 .	2452	55	Petition to revive - unavoidable	
	SUBTOTAL (1) (\$) 0	1453	1,330	2453	665	Petition to revive - unintentional	
2 EYTDA CLAI	M FEES FOR UTILITY AND REISSUE	1501	1,330	2501	665	Utility issue fee (or reissue)	
Z. EXTRACEAL	Extra Fee from Fee	1502	480	2502	240	Design issue fee	
	Claims below Paid	1503	640	2503	320	Plant issue fee	L i
Total Claims	-20 ** = 0 X = 0	1460	130	1460	130	Petitions to the Commissioner	
Independent	-3** = 0 X = 0	1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)	
Cłaims Multiple		1806	180	1806	180	Submission of Information Disclosure Stmt	180
Dependent Large Entity	X = 0	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
Fee Fee Code (\$)	Fee Fee Code (\$) Fee Description	1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
1202 18 1201 86	2202 9 Claims in excess of 20 2201 43 Independent claims in excess of 3	1810	770	2810	385	For each additional invention to be	
1203 290	2201 43 Independent claims in excess of 3 2203 145 Multiple dependent claim, if not paid					examined (37 CFR § 1.129(b))	
1204 86	2204 43 ** Reissue independent claims over	1801 1802	770 900	2801 1802		Request for Continued Examination (RCE)	
1205 18	original patent ** Reissue claims in excess of 20 and	1002	300	1602		Request for expedited examination of a design application	
over original patent			e (specif	iv)			
	SUBTOTAL (2) (\$) 0					_	
**or number previou	usly paid, if greater; For Reissues, see above	*Reduc	ed by Ba	sic Filing	Fee Pa	id SUBTOTAL (3) (\$) 180	0

SUBMITTED BY				Con	nplete (if applicable)
Name (Print/Type)	G. Gregory Schivley / Bryant E Wade	Registration No (Attorney/Agent)	27,382 / 40,344	Telephone	(248) 641-1600
Signature	MARY LAS	ale		Date	7/15/2004

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.